

4.2.A. 0601020402 (Little Tennessee River).

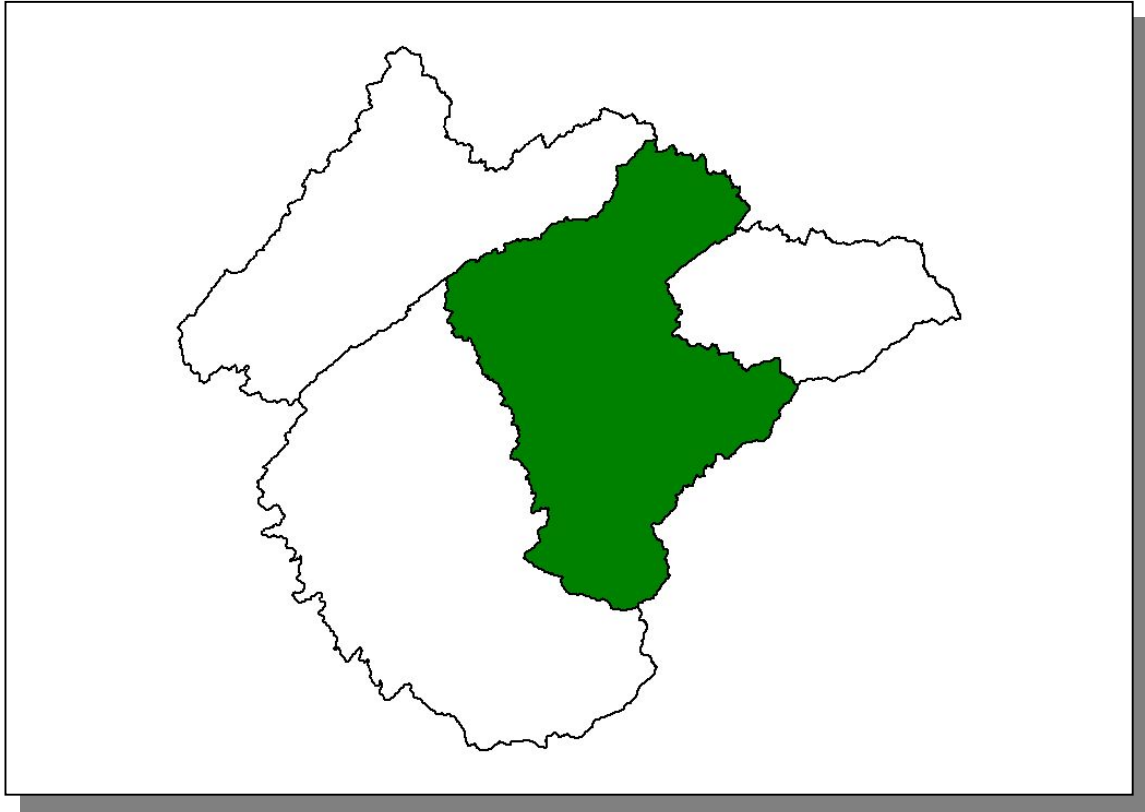


Figure 4-2. Location of Subwatershed 0601020402. All Little Tennessee HUC-10 subwatershed boundaries in Tennessee are shown for reference.

4.2.A.i. General Description.

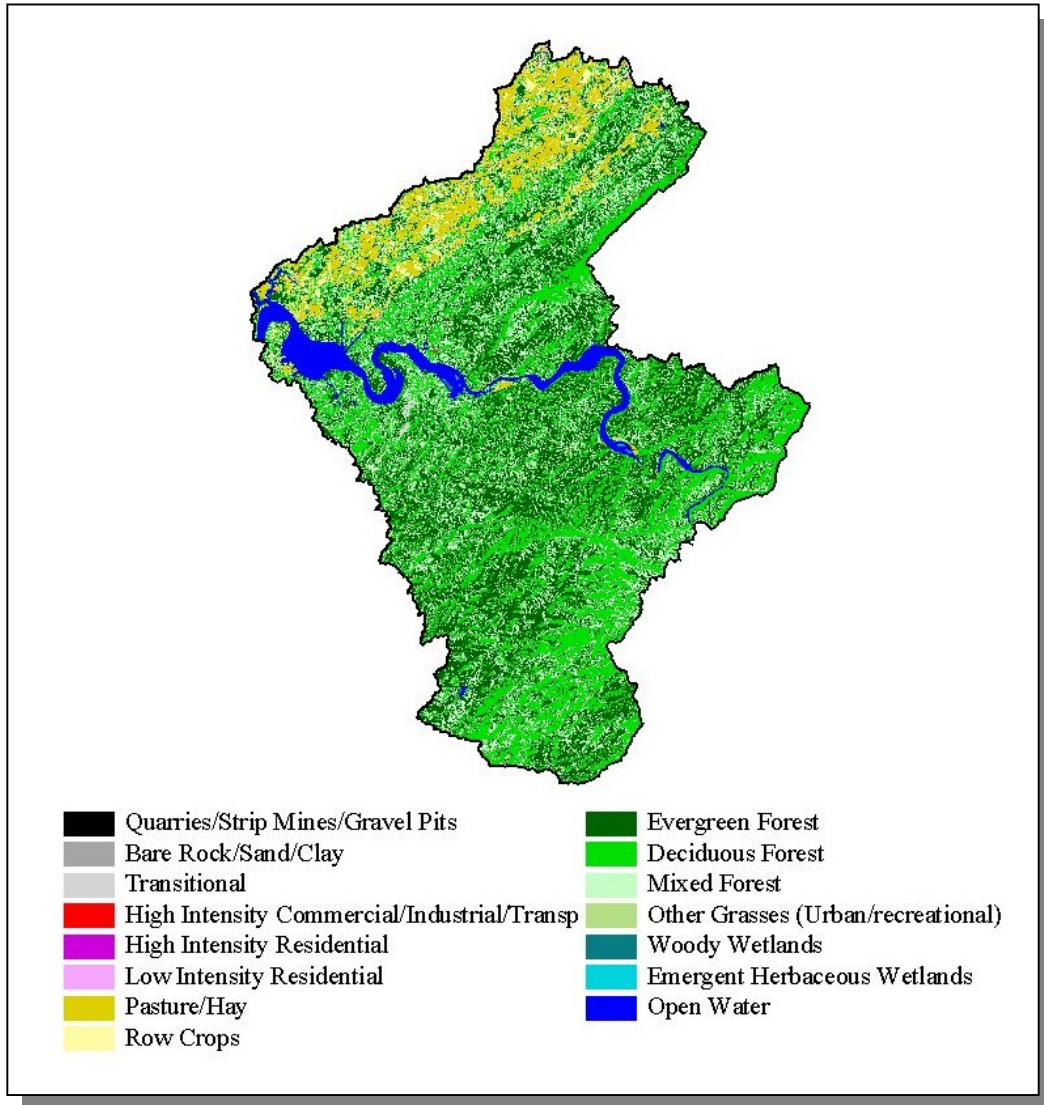


Figure 4-3. Illustration of Land Use Distribution in Subwatershed 0601020402.

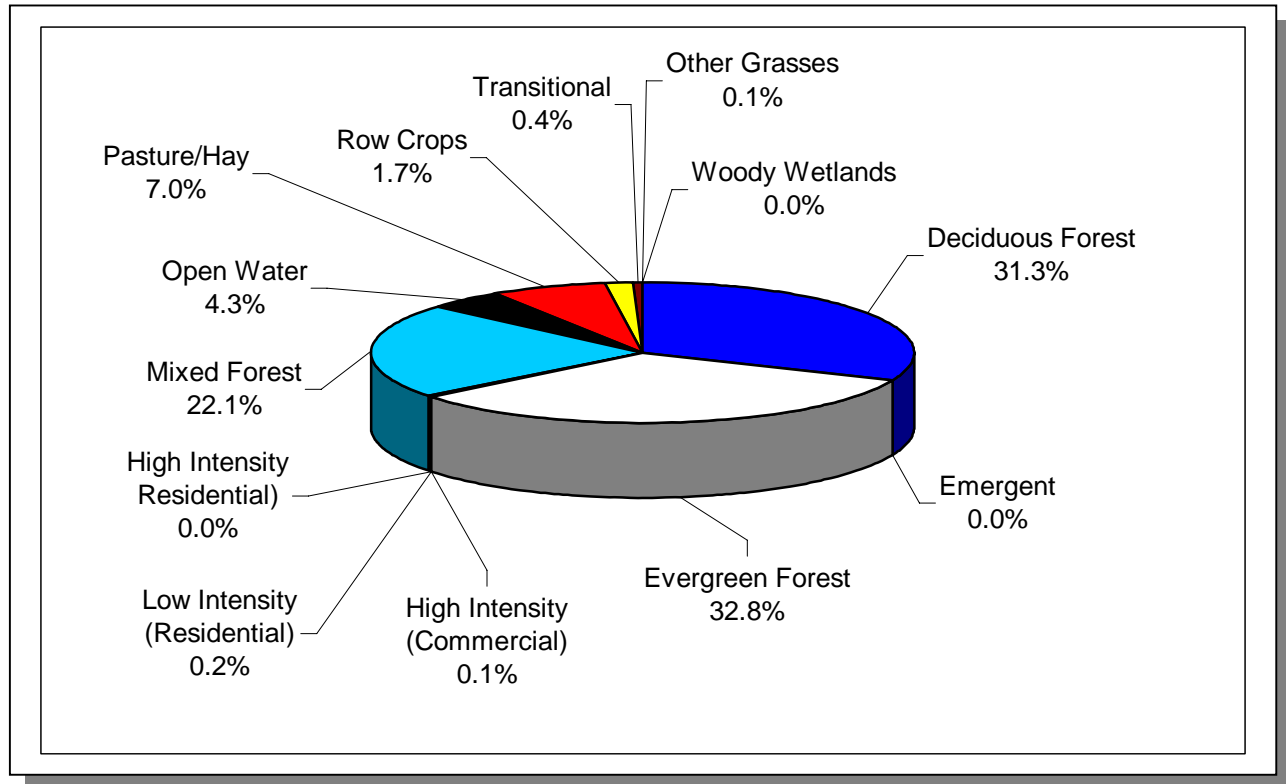


Figure 4-4. Land Use Distribution in Subwatershed 0601020402. More information is provided in Appendix IV.

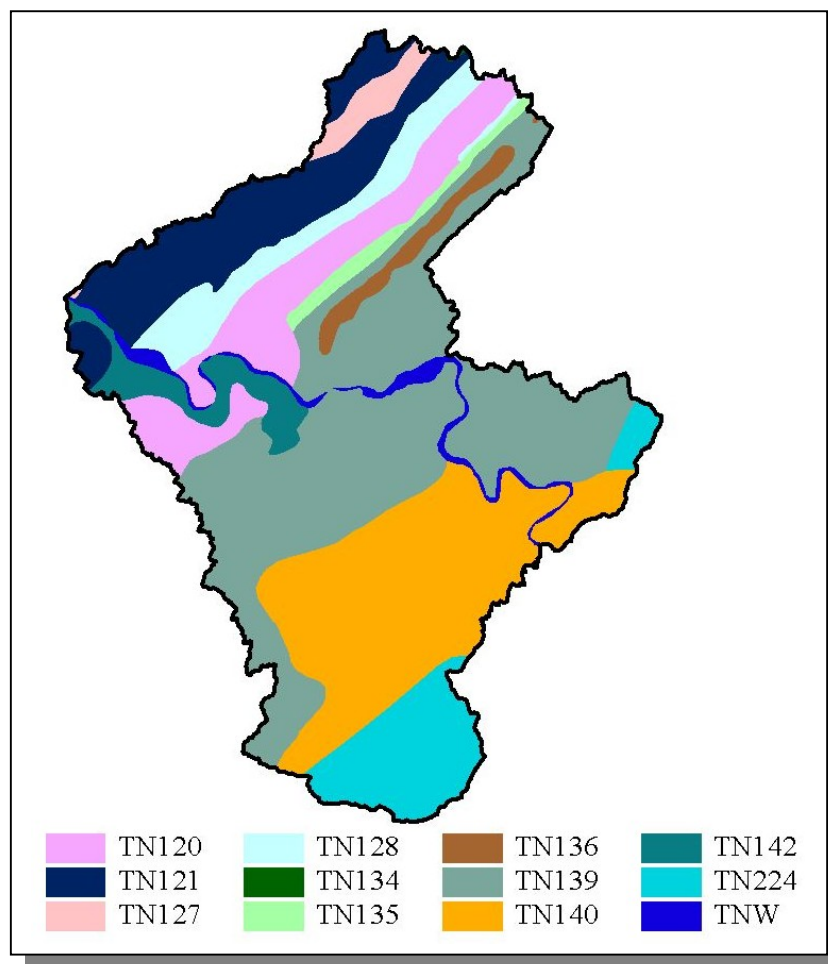


Figure 4-5. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0601020402.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN120	0.00	B	1.68	5.11	Loam	0.27
TN121	0.00	B	1.30	5.21	Loam	0.33
TN127	6.00	C	1.31	5.20	Loam	0.35
TN128	0.00	C	1.30	6.53	Clayey Loam	0.26
TN134	0.00	B	1.38	5.18	Loam	0.31
TN135	0.00	C	1.30	5.84	Loam	0.33
TN136	0.00	B	3.16	5.11	Loam	0.27
TN139	0.00	C	11.84	4.82	Loam	0.20
TN140	0.00	B	3.85	4.85	Sansy Loam	0.21
TN142	0.00	B	2.20	5.78	Loam	0.31
TN224	3.00	B	3.97	5.27	Loam	0.24

Table 4-2. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0601010202. More information is provided in Appendix IV.

County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-1997)
	1990	1997	2000		1990	1997	2000	
Blount	85,969	100,218	105,823	17.56	15,100	17,602	18,587	23.1
Loudoun	31,255	38,245	39,086	0.38	118	145	148	25.4
Monroe	30,541	33,953	38,961	20.48	6,255	6,954	7,980	27.6
Totals	147,765	172,416	183,870		21,473	24,701	26,715	24.4

Table 4-3. Population Estimates in Subwatershed 0601020402.

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Vonore	Monroe	601	281	8	271	2

Table 4-4. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 0601020402.

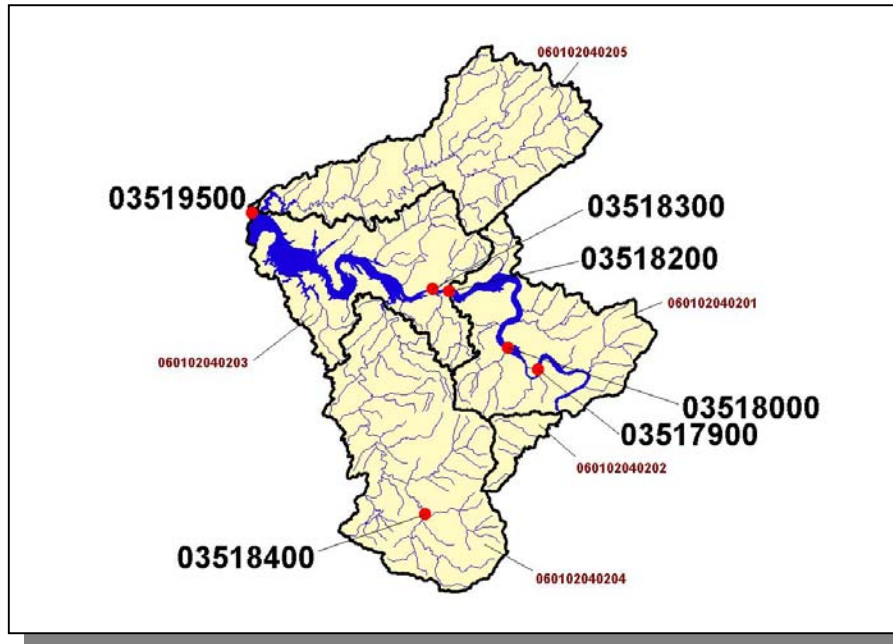


Figure 4-6. Location of Historical Streamflow Data Collection Sites in Subwatershed 0601020402. Subwatershed 060102040201, 060102040202, 060102040203, 060102040204, and 060102040205 boundaries are shown for reference. More information is provided in Appendix IV.

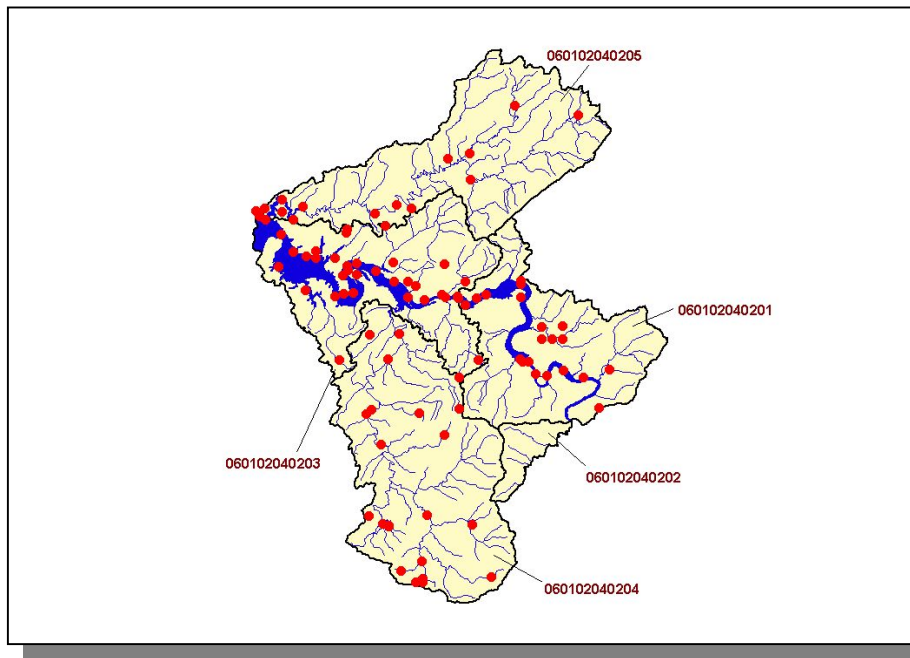


Figure 4-7. Location of STORET Monitoring Sites in Subwatershed 0601020402. Subwatershed 060102040201, 060102040202, 060102040203, 060102040204, and 060102040205 boundaries are shown for reference. More information, including site names and locations, is provided in Appendix IV.

4.2.A.ii. Point Source Contributions.

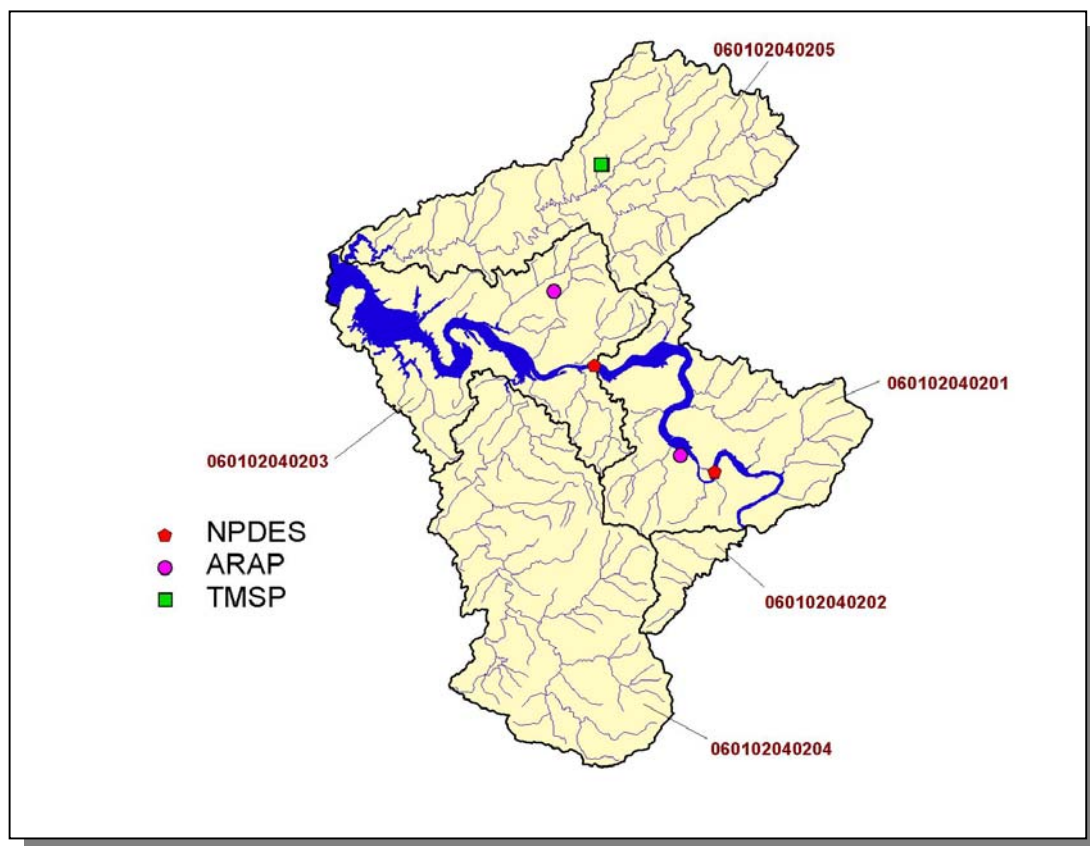


Figure 4-8. Location of Active Point Source Facilities in Subwatershed 0601020402. Subwatershed 060102040201, 060102040202, 060102040203, 0601020404, and 060102040205 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

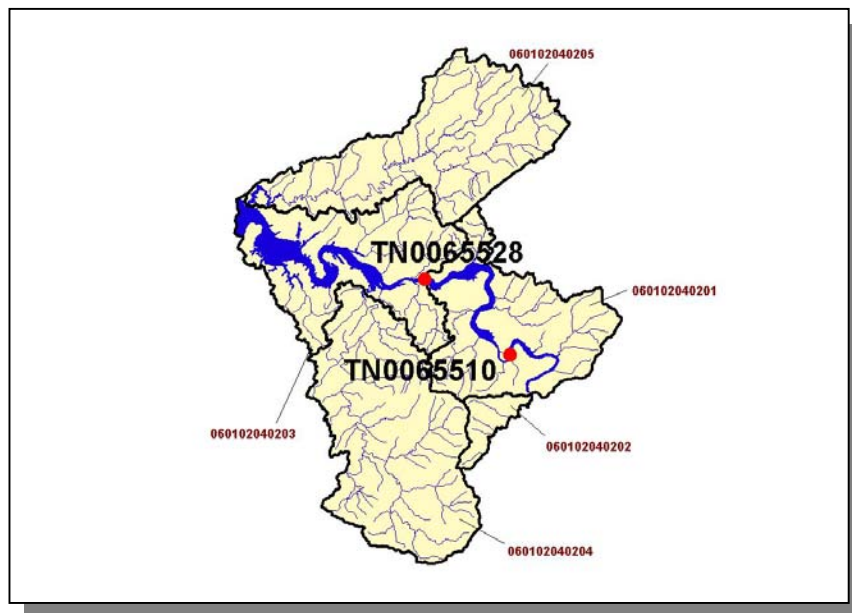


Figure 4-9. Location of NPDES Facilities in Subwatershed 0601020402. Subwatershed 060102040201, 060102040202, 060102040203, 0601020404, and 060102040205 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

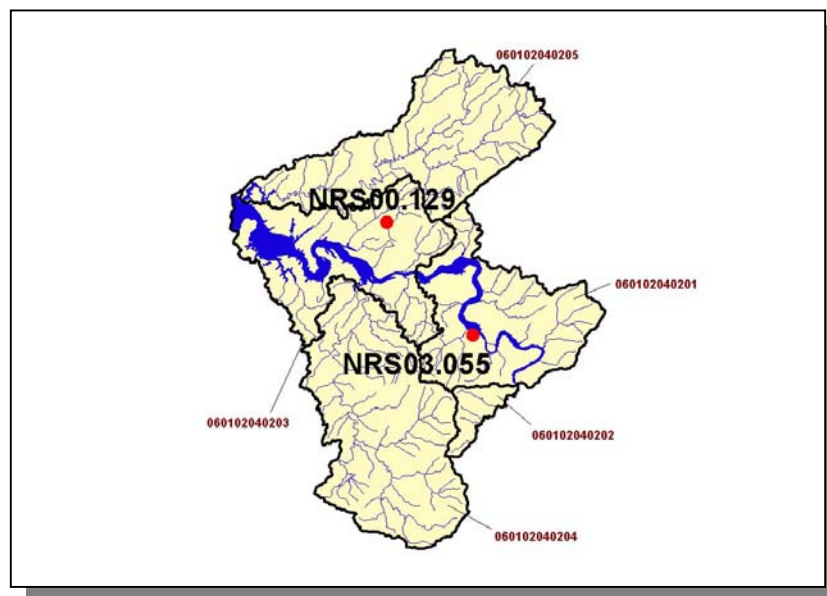


Figure 4-10. Location of ARAP Sites (Individual Permits) in Subwatershed 0601020402. Subwatershed 060102040201, 060102040202, 060102040203, 0601020404, and 060102040205 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

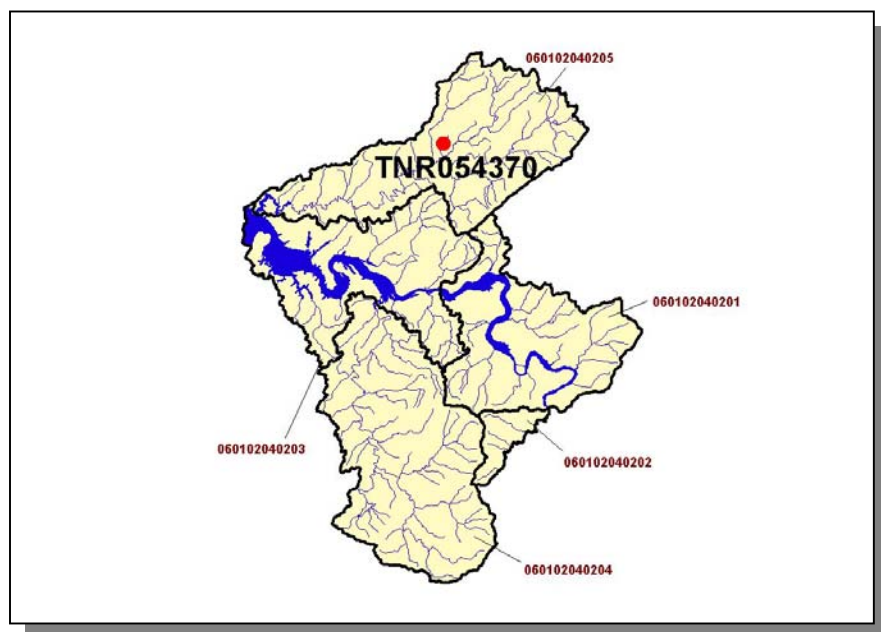


Figure 4-11. Location of TMSF Facilities in Subwatershed 0601020402. Subwatershed 060102040201, 060102040202, 060102040203, 0601020404, and 060102040205 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

4.2.A.ii.a. Dischargers to Water Bodies Listed on the 2002 303(d) List

There is one NPDES facility discharging to water bodies listed on the 2002 303(d) list in Subwatershed 0601020402:

- TN0065510 (ALCOA-Calderwood Power House Hydro Plant) discharges to Little Tennessee River @ RM 43.6

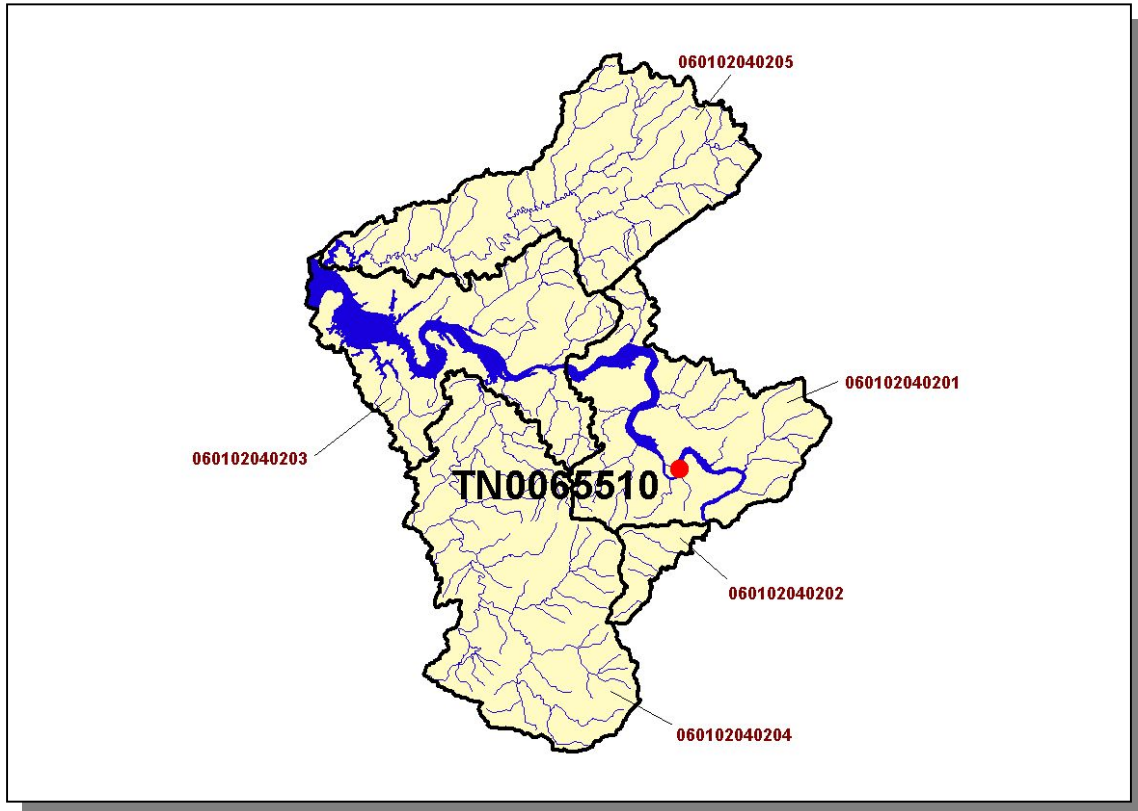


Figure 4-12. Location of NPDES Dischargers to Water Bodies Listed on the 2002 303(d) List in Subwatershed 0601020402. Subwatershed 060102040201, 060102040202, 060102040203, 0601020404, and 060102040205 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0065510	1,200	1,252	1,350	1,200	

Table 4-5. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2002 303(d) List in Subwatershed 0601020402. Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

PCB	SETTLEABLE SOLIDS
X	X

Table 4-6. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2002 303(d) List in Subwatershed 0601020402. PCB, Polychlorinated Biphenyl.

4.2.A.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens Sold	Hogs	Sheep
2,899	6,162	425	8	<5	115	79

Table 4-7. Summary of Livestock Count Estimates in Subwatershed 0601020402. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Blount	165.5	69.9	1.8	9.3
Loudon	62.3	62.3	1.1	3.5
Monroe	301.5	279.1	7.4	21.4
Total	529.3	411.3	10.3	34.2

Table 4-8. Forest Acreage and Average Annual Removal Rates (1987-1994) in Subwatershed 0601020402.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.42
Legumes (Hayland)	0.77
Grass (Hayland)	0.30
Legumes, Grass (Hayland)	0.38
Grass, Forbs, Legumes (Mixed Pasture)	0.32
Forest Land (Not Grazed)	0.00
Forest Land (Grazed)	0.00
Corn (Row Crops)	16.41
Soybeans (Row Crops)	12.82
Tobacco (Row Crops)	4.69
Wheat (Close-Grown Cropland)	5.87
Oats (Close-Grown Cropland)	0.32
Non-Agricultural Land Use	0.00
Other Land in Farms	0.14
Farmsteads and Ranch Headquarters	0.29

Table 4-9. Annual Estimated Total Soil Loss in Subwatershed 0601020402.